

US009510999B2

(12) United States Patent Joyce et al.

(10) Patent No.: US 9,510,999 B2

(45) **Date of Patent: Dec. 6, 2016**

(54) MEDICATION DISPENSING PHONE CASE

(71) Applicant: HealthBeacon Limited, Dublin (IE)

(72) Inventors: James Joyce, Dublin (IE); David

Shanahan, Brannockstown (IE)

(73) Assignee: Healthbeacon, Inc., Boston, MA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 14/819,703

(22) Filed: Aug. 6, 2015

(65) Prior Publication Data

US 2016/0081882 A1 Mar. 24, 2016

Related U.S. Application Data

- (60) Provisional application No. 62/033,947, filed on Aug. 6, 2014.
- (51) Int. Cl.

 G08B 23/00 (2006.01)

 A61J 7/00 (2006.01)

 A61J 1/03 (2006.01)

 G06F 19/00 (2011.01)

 G08B 21/24 (2006.01)

A61J 2205/60 (2013.01); A61J 2205/60 (2013.01)

(58) Field of Classification Search

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

6,603,401 B1	* 8/2003	Ueyama A61B 5/0002
8.639.288 B1	* 1/2014	340/286.07 Friedman A61M 5/20
, ,		455/556.1
9,138,539 B1	* 9/2015	Friedman A61M 5/20
9,161,885 B1	* 10/2015	Zhou A61J 7/0418
2007/0097792 A1	5/2007	Burrows et al.
2011/0181422 A1	* 7/2011	Tran G06F 19/3418
		340/573.1
2012/0160716 A1	* 6/2012	Chan A61J 7/0481
		206/216

(Continued)

FOREIGN PATENT DOCUMENTS

WO 2014015293 A1 1/2014

OTHER PUBLICATIONS

Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority for PCT/US2015/43944, "Medication Dispensing Phone Case", date of mailing Jan. 7, 2016.

Primary Examiner — Santiago Garcia (74) Attorney, Agent, or Firm — Chapin Intellectual Property Law, LLC

(57) ABSTRACT

A system includes a smartphone contained within a medication adherence case, the medication adherence case including a repository and a hinged access door to the repository, a wireless network linking the smartphone to a content data network (CDN), the CDN including a medication adherence server, and an application residing in the smartphone that sends data to a medical adherence process in the medical adherence server upon receiving a signal generated from a communication device residing in the hinged access door that indicates the hinged access door has been opened.

14 Claims, 3 Drawing Sheets

